

Title Terms: FUEL; INJECTION; VALVE; FUEL; INJECTION; SYSTEM; INTERNAL;
COMBUST; ENGINE; COMPRISE; STROKE; MAGNIFY; UNIT; ONE; LEVER; PLATE; ONE;
RIGID; RADIAL; LEVER; SEGMENT
Derwent Class: A88; Q53
International Patent Class (Main): F02M-051/06
File Segment: CPI; EngPI

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DIALOG(R) File 351:Derwent WPI
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WPI Acc No: 2000-272642/ 200024

XRFX Acc No: N00-204249

Dosing device with temperature compensation especially for vehicle fuel
injection - uses compensation device incorporated in valve needle for
compensating temperature dependent expansion

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Number of Countries: 002 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 19854506	C1	20000420	DE 1054506	A	19981125	200024 B
FR 2786270	A1	20000526	FR 9914720	A	19991123	200033

Priority Applications (No Type Date): DE 1054506 A 19981125

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
DE 19854506	C1		9	G01F-013/00	
FR 2786270	A1			G01F-013/00	

Abstract (Basic): DE 19854506 C

The dosing device has a fluid chamber (2) containing an axially
displaced valve needle (3) for selective closure of its outlet opening
(201), with an integrated compensation element (9), provided by 2
spaced walls coupled together via a peripheral membrane, to provide a
hydraulic chamber coupled to the fluid chamber via at least one
opening.

A rapid movement of one half of the valve needle is transmitted to
the other half without loss, a slow movement of one half of the valve
needle compensated by relative movement of the spaced walls of the
compensation element.

USE - For dosing water, fuel, or ink.

ADVANTAGE - Dosing device is unaffected by temperature variations.

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Title Terms: DOSE; DEVICE; TEMPERATURE; COMPENSATE; VEHICLE; FUEL;
INJECTION; COMPENSATE; DEVICE; INCORPORATE; VALVE; NEEDLE; COMPENSATE;
TEMPERATURE; DEPEND; EXPAND

Derwent Class: Q53; S02; X22

International Patent Class (Main): G01F-013/00

International Patent Class (Additional): F02M-051/06; F02M-061/08;

F02M-061/10; F02M-061/16

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